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DATE: Wednesday, February 22, 2006

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| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=AND</i> | | | | |
| <input type="checkbox"/> | L5 | l1 same (conA or concanavalin or glycosylat\$) | | 72 |
| <input type="checkbox"/> | L4 | l1 samd l2 | | 0 |
| <input type="checkbox"/> | L3 | L2 and (measur\$ or detect\$ or assay or quantitat\$) | | 402 |
| <input type="checkbox"/> | L2 | L1 and (conA or concanavalin or glycosylat\$) | | 404 |
| <input type="checkbox"/> | L1 | butyrylcholine or acylcholine or benzoylcholinesterase or cholinesterase or pseudocholinesterase | | 4705 |

END OF SEARCH HISTORY

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NiceZyme View of ENZYME: EC 3.1.1.8

Official Name**Cholinesterase.****Alternative Name(s)****Acetylcholine acylhydrolase.****Benzoylcholinesterase.****Butyrylcholine esterase.****Choline esterase II (unspecific).****Non-specific cholinesterase.****Pseudocholinesterase.****Reaction catalysed****An acetylcholine + H(2)O <=> choline + a carboxylate****Comment(s)****Acts on a variety of choline esters and a few other compounds.****Human Genetic Disease(s)****Drug induced
(postanesthetic) apnea** MIM:177400**Cross-references****PROSITE** PDOC00112**BRENDA** 3.1.1.8**PUMA2** 3.1.1.8**PRIAM enzyme-specific profiles** 3.1.1.8**Kyoto University LIGAND chemical database** 3.1.1.8**IUBMB Enzyme Nomenclature** 3.1.1.8**IntEnz** 3.1.1.8**MEDLINE** Find literature relating to 3.1.1.8

3.1.1.8

MetaCyc**UniProtKB/Swiss-Prot**

Q95000, CHLE1_BRAL; Q95001, CHLE2_BRAL; P32749, CHLE_BOVIN;
P32750, CHLE_CANFA; O62760, CHLE_FELCA; P81908, CHLE_HORSE;
P06276, CHLE_HUMAN; P32751, CHLE_MACMU; Q5UR02, CHLE_MIMIV;
Q03311, CHLE_MOUSE; O62761, CHLE_PANTT; P32752, CHLE_PIG;
P21927, CHLE_RABIT; P32753, CHLE_SHEEP;

[View entry in original ENZYME format](#)

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

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Matches in ENZYME:

ID 3.1.1.7
DE Acetylcholinesterase.
AN Choline esterase I.
AN **Cholinesterase.**
AN True **cholinesterase.**
CA Acetylcholine + H(2)O = choline + acetate.
CC -!- Acts on a variety of acetic esters.
CC -!- Also catalyzes transacetylations.
PR PROSITE; PDOC00112;
//
ID 3.1.1.8
DE **Cholinesterase.**
AN Acylcholine acylhydrolase.
AN Benzoylcholinesterase.
AN Butyrylcholine esterase.
AN Choline esterase II (unspecific).
AN Non-specific **cholinesterase.**
AN Pseudocholinesterase.
CA An acylcholine + H(2)O = choline + a carboxylate.
CC -!- Acts on a variety of choline esters and a few other compounds.
DI Drug induced (postanesthetic) apnea; MIM:177400.
PR PROSITE; PDOC00112;
//

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| Set | Items | Description |
|-----|-------|---|
| S1 | 5142 | ACYLCHOLINE(W)ACYLHYDROLASE OR BENZOYLCHOLINESTERASE OR BUTYRYLCHOLINE(W)ESTERASE OR CHOLINE(W)ESTERASE(W)II OR NON(W)SPECIFIC(W)CHOLINESTERASE OR PSEUDOCHOLINESTERASE |
| S2 | 21 | S1 AND (CONA OR CONCANAVALIN OR GLYCOSYLA?) |
| S3 | 14 | RD S2 (unique items) |
| S4 | 99 | S1 AND ALZHEIMER? |
| S5 | 72 | RD S4 (unique items) |
| S6 | 3011 | BUCHE |
| S7 | 402 | S6 AND ALZHEIMER? |
| S8 | 146 | RD S7 (unique items) |
| S9 | 216 | S5 OR S8 |
| S10 | 212 | RD S9 (unique items). |
| S11 | 109 | S10 AND PY<2001 |

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22feb06 14:39:49 User226352 Session D912.3